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1951-52 Results

IMPROVEMENT OF SHEEP THROUGH
THE SELECTION OF PERFORMANCE-
TESTED AND PROGENY-TESTED
BREEDING ANIMALS

May 17, 1952

RANCH EXPERIMENT STATION



TEXAS AGRICULTURAL EXPERIMENT STATION

R. D. LEWIS, Director, College Station, Texas



In Cooperation With
TEXAS SHEEP BREEDERS

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IMPROVEMENT OF SHEEP THROUGH THE SELECTION OF PERFORMANCE-TESTED AND PROGENY-TESTED BREEDING ANIMALS, 1951-52*

This report presents the results of the fourth year's work with the ram testing project. This year's test, at completion, consisted of 210 rams representing 42 sires of five purebreeds and some crossbreeds. Data on rate and economy of gain is based on a 224-day feeding period (September 5 to April 16) with a ration of equal parts of oats and alfalfa hay fed according to appetite. Fleece samples, from which staple lengths and spinning counts have been determined, were taken on April 4. This gives a 213 and 214 day growing period since the sheep were not all sheared on the same day. The rams were sheared at the close of the test on April 17 and 18, leaving a 225 to 227 day growing period. All figures presented herein have been adjusted to a 365-day basis.

Scouring reports, spinning counts and staple length determinations were made at the Wool Scouring Plant at Bluebonnet Farm, McGregor, Texas.

Belly wool, face covering and body conformation scores were obtained by a committee of three sheepmen. The evaluations used are as follows:

Body Conformation: Excellent (1), Good (2), Medium (3), Poor (4).

Belly Wool: Dense covering (1), Medium covering (2), Poorly covered (3), Bare (4).

Face Covering: Open (1), Medium (2), Covered (3), Wool Blind (4).

Skin fold values represent a total score for each animal based on the number, size and location of skin folds. The higher the score the greater the amount of skin folds. One person made all determinations.

As in the previous year the rams were fed in three different arrangements, and in a few cases the same sires are represented in each. Thirty sire groups of 4 rams each (except where a ram died) representing 28 different sires were fed in progeny groups, and on these, feed consumption records were kept by sire groups. As would be expected, there is a tendency for the older and larger animals to require more feed per unit of gain ($r = .64$) due to their tendency to put on more fat. A second method of feeding was the 78 head fed the same ration in large pens. Feed records are available on the group as a whole and not by individual sire groups. An additional 18 head of rams were fed oats on pasture. Theoretically, the forage obtained would replace the alfalfa. The amount of oats fed was the same on a per head basis as was fed in the large pens. All of the sires represented in the pasture group also had progeny in one or both of the other feeding arrangements. This affords an opportunity to compare their performance in the feedlot with a more practical method of management.

* Conducted at the Ranch Experiment Station, Sonora, W. T. Hardy, Superintendent.

Ram Test No.	Ear Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Feed Per 100 lbs. Gain	Fleece Record 365 DAYS			Spin- ning Count	Body Con- form- ation	Belly Wool	Skin Fold	Face Cov- ering
								Grease Weight	Clean Weight	Staple Inches					

RAMBOUILLETS — FED IN PROGENY GROUPS

Sire W. 4198; Owner—Pat Rose Jr., Del Rio

1	1383	14	103	220	117	.56		24.1	10.6	3.09	80s	1.8	2	44	4
2	1385	14	117	219	102	.46		19.9	9.3	3.26	80s	2.0	3	51	4
3	1393	14	118	238	120	.54		22.0	9.2	3.26	80s	2.0	2	23	4
4	1397	14	113	214	101	.45		19.6	9.3	3.60	80s	1.7	2	10	4
Average			112.8	222.7	110.0	.49	937	21.4	9.6	3.30		1.9	2.2	32.0	4.0

Sire W. H. 4359; Owner—Wallace Hendricks, San Angelo

13	4504	16	122	223	101	.45		20.4	9.8	3.38	70s	2.3	3	14	3
14	4520	16	106	191	85	.38		16.2	7.9	3.09	80s	2.0	3	10	3
15	4530	16	126	223	97	.43		17.0	9.5	3.14	64s	1.7	2	13	3
16	125	16	108	195	87	.39		20.3	8.5	3.38	70s	1.8	1	18	3
Average			115.5	208.0	92.5	.41	1059	18.5	8.9	3.25		1.9	2.2	13.7	3.0

Sire T. S. 4135; Owner—Wallace Hendricks, San Angelo

17	4550	16	130	221	91	.41		18.5	9.2	3.72	80s	2.2	3	11	2
18	135	15	118	207	89	.41		19.0	10.1	4.11	80s	2.3	3	11	2
19	267	16	115	217	102	.46		18.7	7.2	2.74	64s	2.8	3	34	4
20	4512	16	125	219	94	.42		19.6	8.7	3.21	70s	2.0	3	18	4
Average			122.0	216.0	94.0	.42	1078	19.0	8.8	3.45		2.3	3.0	18.5	3.0

Sire T. S. 4168; Owner—W. L. Davis, Sonora

26	719	15	71	153	82	.37		19.1	9.8	3.77	80s	3.0	2	42	4
27	673	15	70	141	71	.32		12.4	7.2	3.55	80s	3.0	2	10	4
28	708	15	79	164	85	.38		17.4	7.9	3.82	80s	2.2	2	22	4
Average			73.3	152.7	79.3	.35	924	16.3	8.3	3.71		2.7	2.0	24.7	4.0

Sire C. O. B475; Owner—W. L. Davis, Sonora

29	809	12	71	180	109	.49		16.4	8.2	3.48	64s	2.2	3	21	3
30	815	12	54	166	112	.50		14.3	7.1	3.55	64s	2.5	2	8	3
31	816	12	69	199	130	.58		14.8	6.9	3.31	80s	2.3	3	16	2
Average			61.8	148.3	113.7	.52	725	13.9	7.7	3.45		2.3	2.7	15.0	2.7

Sire J. W. 3852; Owner—A. W. Keys, Eldorado

33	110	16	112	215	103	.46	21.5	9.2	3.94	80s	1.7	2	10	4
34	112	16	106	196	90	.40	23.0	9.6	3.55	70s	2.0	2	25	4
35	106	16	102	172	70	.31	14.8	6.3	3.26	64s	2.5	4	6	3
36	130	14	135	242	107	.48	25.7	9.6	3.55	64s	1.8	2	20	4
Average			113.8	206.3	92.5	.41	1017	21.3	8.7	3.58	2.0	2.5	15.2	3.7

Sire T. S. 4135; Owner—E. G. Branch, Rankin

37	562	14	82	180	98	.44	17.8	8.7	3.09	80s	2.8	3	40	3
38	581	14	86	205	119	.53	17.4	8.7	4.23	80s	2.3	3	11	3
39	472	14	58	156	98	.44	16.4	7.9	3.26	70s	2.8	4	32	4
40	470	14	84	188	104	.46	17.8	8.7	3.31	80s	2.0	2	59	3
Average			77.5	182.2	104.8	.47	827	17.4	8.5	3.47	2.5	3.0	35.5	3.2

Sire 230R; Owner—R. Q. Landers, Menard

45	388	15	86	190	104	.46	13.8	6.1	3.26	64s	2.0	3	11	3
46	35	14	76	180	104	.46	15.6	8.4	3.99	70s	1.8	2	8	3
47	398	14	66	162	96	.43	12.5	5.3	3.99	80s	2.2	3	5	3
48	401	14	81	202	121	.54	16.1	6.8	3.09	64s	1.8	3	6	1
Average			77.2	183.5	106.3	.47	862	14.5	6.6	3.58	1.9	2.7	7.5	2.5

Sire J. W. 4183; Owner—F. N. Bierschwale, Segovia

49	B5001	14	82	199	117	.52	19.0	8.0	3.48	64s	1.8	3	16	4
50	B5025	14	85	183	98	.43	16.7	7.7	3.09	64s	2.0	3	37	4
52	B5059	14	78	205	127	.57	17.5	7.6	2.91	64s	2.0	3	37	4
Average			81.7	195.7	114.0	.51	834	17.7	7.8	3.16	1.9	3.0	30.0	4.0

Sire V. I. P. X5116; Owner—Miles Pierce, Alpine

57	3474	13	128	247	119	.53	25.7	11.7	3.48	62s	2.3	2	48	4
58	3492	13	116	220	104	.46	23.6	11.3	4.06	80s	1.5	2	16	4
59	3471	13	99	201	102	.46	24.0	10.9	4.17	62s	2.5	2	30	3
60	3480	13	113	222	109	.49	23.5	11.1	3.60	62s	2.3	2	28	4
Average			114.0	222.5	108.5	.48	986	24.2	11.3	3.83	2.1	2.0	30.5	3.7

Sire W. S. 8158; Owner—S. S. Bundy, Roosevelt

65	6	57	152	95	.42	14.2	6.7	3.46	64s	2.7	2.5	6	3.5
66	21	48	140	92	.41	12.1	5.9	3.79	64s	2.7	2.5	23	4.0
67	33	52	146	94	.42	13.9	7.4	3.44	64s	2.7	3.0	31	3.5
68	70	66	166	100	.48	12.5	7.2	3.27	70s	2.7	3.0	12	3.5

Sire in progeny groups					106.9	.48	Finest Record 100 lbs.			18.2	8.5	3.54	Finest Record 100 lbs.			
Ram Test No.	Ear Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Feeds Per 100 lbs. Gain	Grease Weight	Clean Weight	Staple Inches	Spin-ning Count	Body Con-formation	Belly Wool	Skin Fold	Face Cov-ering	
Sire 737; Owner—Dempster Jones, Ozona																
73	1757	16	90	214	124	.55		21.6	10.3	3.39	62s	1.8	3	71	4	
74	1806	16	86	178	92	.41		17.6	7.9	3.27	64s	2.7	3	22	4	
75	1784	16	98	200	102	.46		20.8	8.4	3.62	64s	2.3	2	20	4	
Average			91.3	197.3	106.0	.47	927	20.0	8.9	3.43		2.3	2.7	37.7	4.0	
Sire A.N.B. 697; Owner—H. C. Noelke, Sheffield																
81	139	13	72	178	106	.47		21.0	9.6	3.15	80s	2.2	2	33	4	
82	166	12	67	200	133	.59		17.8	8.4	3.15	70s	2.0	3	29	3	
83	171	12	69	200	131	.58		22.6	10.6	3.27	80s	2.0	3	58	4	
84	178	12	83	220	137	.61		20.7	9.8	3.15	80s	2.0	3	20	3	
Average			72.8	199.5	126.8	.57	773	20.5	9.6	3.18		2.0	2.7	35.0	3.5	
Sire R24; Owner—Texas A & M College, College Station																
85	5409	17	119	243	124	.55		22.0	9.6	3.44	64s	1.7	2	24	4	
86	5366	17	112	203	91	.41		16.6	6.9	3.22	62s	3.0	3	15	4	
87	5413	17	106	211	105	.47		20.5	7.4	2.75	64s	2.5	2	23	4	
88	5445	16	109	222	113	.50		17.6	7.9	3.39	70s	2.2	2	21	4	
Average			111.5	219.8	108.3	.48	984	19.2	8.0	3.20		2.3	2.2	20.7	4.0	
Sire L.F.H. R2363; Owner—B. F. Bridges, Bronte																
89	443	12	70	178	108	.48		14.2	6.6	3.27	80s	2.5	2.5	12	4	
90	445	12	69	176	107	.48		13.7	7.1	3.22	80s	2.2	3.5	22	3.5	
91	457	11	58	175	117	.52		14.7	7.2	3.50	64s	1.5	2.5	14	4	
92	459	11	61	179	118	.53		17.0	8.2	3.67	70s	1.7	3.5	12	3.5	
Average			64.5	177.0	112.5	.50	756	14.9	7.3	3.42		2.0	3.0	15.0	3.7	
Sire P.R. 1235; Owner—Leo Richardson, Iraan																
01	3624	13	75	173	98	.44		14.9	7.9	3.79	80s	2.2	4	13	3	
02	3616	13	77	177	100	.45		18.6	9.0	3.84	80s	1.5	2	16	3	
03	3625	13	61	171	110	.49		14.5	7.2	4.01	80s	1.5	3	8	2	
04	LL696	13	69	178	109	.49		16.6	7.6	3.15	80s	1.8	2	19	4	
Average			70.5	174.7	104.3	.47	834	16.2	7.9	3.70		1.7	2.7	14.0	3.0	
Sire P.R. 1235; Owner—Leonard Richardson, Iraan																
05	LL684	13	69	180	111	.50		14.7	6.9	3.50	80s	2.0	3	12	4	

06	LL690	13	61	172	111	.50	15.7	8.0	5.17	80s	2.7	2	3	3
07	3617	13	80	200	120	.54	16.0	8.0	3.84	80s	2.0	4	4	3
08	3620	13	75	191	116	.52	17.6	8.5	3.72	70s	2.0	3	36	4
Average			71.2	185.7	114.5	.51	765	16.0	7.9	4.06	2.2	3.0	13.7	3.5

Sire Leo 2535; Owner—Leo Richardson, Iraan

09	3728	14	82	184	102	.46	19.2	10.5	4.31	80s	2.7	2	16	4
010	3762	14	96	201	105	.47	20.5	9.3	4.01	80s	1.8	2	18	4
011	3766	14	97	205	108	.48	22.0	11.9	4.25	80s	2.0	1	20	4
012	3767	14	83	190	107	.48	17.8	9.6	3.96	70s	2.3	3	17	3
Average			89.5	195.0	105.5	.47	913	19.9	10.3	4.13	2.2	2.0	17.7	3.7

Sire U.S. 1479; Owner—Substation 14, Sonora

013	4459	13	70	178	108	.48	17.6	8.4	3.67	80s	2.2	2	24	3
014	4454	13	64	181	117	.52	16.5	7.7	3.74	80s	2.2	2	19	3
015	4424	13	66	197	131	.58	18.6	8.2	3.50	70s	2.2	2	50	1
016	4425	13	71	177	106	.47	19.1	9.0	4.25	70s	2.7	1	17	3
Average			67.8	183.3	115.5	.52	768	17.9	8.3	3.79	2.3	1.7	27.5	2.5

Sire T.S. 3928; Owner—Substation 14, Sonora

019	4493	13	78	189	111	.50	20.8	10.3	3.50	80s	2.5	4	30	2
020	4544	12	67	201	134	.60	20.7	10.0	3.62	70s	1.8	3	30	3
021	4428	13	69	190	121	.54	18.6	10.1	3.79	64s	1.5	3	38	3
Average			71.3	193.3	122.0	.54	788	20.0	10.1	3.64	1.9	3.3	32.7	2.7

Sire Tech. 1228; Owner—Substation 14, Sonora

035	4557	12	98	216	118	.53	19.9	9.2	4.13	80s	2.7	4	11	2
036	4484	13	67	188	121	.54	19.5	9.2	4.08	80s	2.3	2	28	2
037	4420	13	75	192	117	.52	22.0	9.6	3.84	80s	3.2	1	30	4
038	4524	12	71	196	125	.56	18.4	8.4	3.84	80s	2.2	3	25	2
Average			77.8	198.0	120.3	.54	804	20.0	9.1	3.97	2.6	2.5	23.5	2.5

Sire T.S. 4162; Owner—Substation 14, Sonora

057	4471	13	84	192	108	.48	15.0	6.3	3.05	80s	2.2	3	24	4
058	4482	13	70	172	102	.46	15.3	6.4	2.93	64s	2.5	2	40	4
059	4534	12	71	172	101	.45	19.1	8.0	3.15	70s	2.7	3	64	4
060	4561	12	72	185	113	.50	17.3	7.6	2.63	64s	2.5	1	45	3
Average			74.2	180.3	106.1	.47	824	16.7	7.1	2.94	2.5	2.2	43.2	3.7

Average all Rambouillet

Ram	Ear	Age	Initial	Final	Average	Feed Per	Fleece Record 365 DAYS	Spin.	Body Con.	Eggs
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026	4573	12	65	152	87	.39	15.9	7.0	3.22	80s	3.0	2.5	38	2.5	
Average			74.8	156.7	82.0	.37	15.3	7.1	3.33		2.9	2.6	32.2	2.4	
Born Test No.	Age Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Per 100 lbs. Gain	Grease Weight	Clean Weight	Staple Inches	Spin- ning Count	Belly Form- ation	Belly Wool	Skin Fold	Face Cov- ering

RAMBOUILLETS — GROUP FED IN LARGE PENS

Sire L.F.H. R2276; Owner—Pat Rose, Del Rio

5	1425	13	110	215	105	.47		20.4	9.0	3.60	80s	2.5	4	10	3.5
6	1429	13	83	176	93	.42		20.5	6.9	3.02	80s	1.7	4	20	1.5
7	1431	13	92	185	93	.42		15.8	7.9	3.60	80s	1.8	4	7	3.5
8	1421	13	94	199	105	.47		16.9	8.7	3.94	80s	1.8	3.5	10	3.5
Average			94.8	193.7	99.0	.45		18.4	8.1	3.54		1.9	3.9	11.7	3.0

Sire W. 4198; Owner—Pat Rose, Del Rio

10	1433	12	91	219	128	.57		17.4	8.9	2.97	80s	1.8	3.5	5	4.0
11	1441	12	71	183	112	.50		15.7	8.7	3.77	64s	1.8	3.0	11	3.5
12	1453	12	81	169	88	.39		15.3	6.9	3.60	80s	1.8	3.5	4	3.5
Average			81.0	190.3	109.3	.49		16.1	8.2	3.45		1.8	3.3	6.7	3.7

Sire T.S. 4135; Owner—Wallace Hendricks, San Angelo

21	201B	16	125	229	104	.46		20.4	9.2	3.55	80s	1.7	2.5	18	3.0
22	203B	15	115	198	83	.37		18.6	8.6	3.43	80s	1.5	4.0	8	4.0
23	204B	15	97	182	85	.38		21.3	8.2	3.26	80s	2.0	2.5	30	4.0
24	205B	15	111	194	83	.37		18.2	8.1	3.77	80s	1.8	2.5	20	2.5
Average			112.0	200.7	88.8	.40		19.6	8.5	3.50		1.7	2.9	19.0	3.4

Sire Scott Hansen 6; Owner—E. G. Branch, Rankin

41	623	12	58	157	99	.44		16.6	8.7	3.82	80s	2.8	2.5	37	3.0
42	603	12	71	195	124	.55		19.7	11.5	4.34	80s	2.3	2.0	41	2.5
43	608	12	68	183	115	.51		16.1	7.6	3.60	64s	1.7	3.0	11	2.5
44	612	12	72	192	120	.54		17.9	7.6	3.26	80s	2.0	2.5	17	3.5
Average			67.2	181.8	114.5	.51		17.6	8.8	3.75		2.2	2.5	26.5	2.9

Sire Leo 2117; Owner—F. M. Bierschwale, Segovia

54	25	15	93	183	90	.40		16.6	6.9	3.72	80s	2.5	3.5	11	3.5
56	29	15	104	202	98	.44		18.4	8.1	3.09	80s	1.3	4.0	13	4.0
Average			98.5	192.5	94.0	.42		17.5	7.5	3.41		1.9	3.8	12.0	3.7

Sire V.I.P. X2490; Owner—Miles Pierce, Alpine

61	3630	13	151	248	97	.43	22.0	9.4	3.31	64s	3.3	2.5	32	4
63	3636	13	125	224	99	.44	22.1	9.5	3.75	80s	2.3	2.5	12	4
64	3632	13	97	185	88	.39	20.2	8.6	3.89	80s	1.8	2.5	18	4
Average			124.3	219.0	94.7	.42	21.4	9.2	3.65		2.5	2.5	20.7	4.0

Sire RW 2929; Owner—Tex. Agr. Exp. Sta. — Bluebonnet Farm, McGregor

69	1038	14	72	180	108	.48	15.1	7.0	3.56	70s	1.8	3.0	15	3.0
70	1065	14	68	159	91	.41	15.4	7.8	3.56	62s	2.2	3.0	24	3.5
71	1207	13	83	202	119	.53	19.1	10.0	3.32	70s	2.0	2.0	10	1.5
72	1271	13	75	161	86	.38	16.4	7.6	3.39	70s	1.8	3.5	25	2.6
Average			74.5	175.5	101.0	.45	16.5	8.1	3.46		1.9	2.9	18.5	2.6

Sire TS 4197; Owner—H. C. Noelke, Sheffield

77	52	15	60	172	112	.50	16.5	6.7	2.76	64s	2.3	2.5	91	3.0
78	61	15	94	175	81	.36	18.3	9.1	3.91	64s	2.7	1.5	11	4.0
79	65	15	90	187	97	.43	19.8	8.1	3.84	64s	1.8	2.5	54	3.5
80	108	15	73	168	95	.42	14.9	7.3	3.79	62s	1.7	3.0	14	3.5
Average			79.2	175.5	96.3	.43	17.4	7.8	3.57		2.1	2.4	42.5	3.5

Sire B.F.B. 259; Owner—B. F. Bridges, Bronte

93	373	17	99	183	84	.38	12.2		2.81	80s	1.5	3.5	3	2.5
94	385	17	127	218	91	.41	22.2	8.8	2.98	64s	1.7	2.5	37	3.5
95	411	16	102	176	74	.33	13.3	5.0	3.39	80s	1.5	3.5	6	3.5
96	423	16	72	184	112	.50	17.4	7.9	3.22	70s	2.7	3.5	80	4.0
Average			100.0	190.2	90.2	.41	16.3	7.2	3.10		1.8	3.2	31.5	3.4

Sire U. S. 1479; Owner—Leo Richardson, Iraan

97	3307	16	105	199	94	.42	21.9	8.1	3.05	62s	2.5	1.5	51	4.0
98	3310	16	122	232	110	.49	23.5	10.4	3.79	70s	1.7	1.5	8	3.5
99	LL634	16	107	219	112	.50	19.5	8.9	3.91	70s	2.0	2.5	1	3.5
100	Rod667	16	105	239	134	.60	24.2	10.4	4.13	80s	3.0	4.0	7	1.5
Average			109.8	222.3	112.5	.50	22.3	9.5	3.72		2.3	2.4	16.7	3.1

Sire TS3928; Owner—Substation No. 14, Sonora

023	4417	13	78	159	81	.36	14.7	7.0	3.50	80s	3.0	2.5	22	1.5
024	4468	13	73	137	64	.29	12.2	6.7	3.62	80s	2.7	3.0	21	3.0
025	4494	13	83	179	96	.43	18.4	7.9	2.98	64s	3.0	2.5	48	2.5
026	4573	12	65	152	87	.39	15.9	7.0	3.22	80s	3.0	2.5	34	2.5

Ram	Ear	Age	Initial	Final	Total	Average	Per 100 lbs.	Pace	Record 300 Yds.	Spin-ning	Con- form.	Belly	Skin	Face Cov
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Ram Test No.	Ear Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Feed Per 100 lbs. Gain	Fleece Record 365 DAYS			Spin- ning Count	Body Con- form- ation	Belly Wool	Skin Fold	Face Cov- ering
								Grease Weight	Clean Weight	Staple Inches					
Sire Tech 1228; Owner—Substation No. 14, Sonora															
039	4418	13	62	171	109	.49		12.8	5.8	3.32	80s	2.0	3.5	10	3.0
040	4435	13	76	173	97	.43		15.8	7.5	4.08	70s	2.0	3.0	12	3.0
041	4442	13	55	114	59	.26		10.2	5.0	3.32	80s	2.8	3.0	11	3.0
042	4568	12	67	155	88	.39		16.5	7.3	4.18	80s	2.5	3.0	9	4.0
Average			65.0	153.2	88.3	.39		13.8	6.4	3.73		2.3	3.1	10.5	3.2
Sire R241; Owner—Substation No. 14, Sonora															
045	4430	13	76	195	119	.53		19.2	7.5	2.58	64s	2.3	3.0	100	3.5
046	4478	13	73	176	103	.46		15.6	7.6	2.98	64s	2.2	2.0	29	3.5
047	4486	13	70	152	82	.37		14.0	5.5	2.46	64s	2.5	2.5	112	4.0
048	4506	13	78	175	97	.43		19.8	7.5	2.98	64s	2.0	2.0	26	3.5
Average			74.2	174.5	100.3	.45		17.2	7.0	2.75		2.2	2.4	66.7	3.6
Sire R241; Owner—Substation 14, Sonora															
049	4464	13	66	149	83	.37		14.7	5.8	2.63	70s	2.2	2.0	27	2.5
050	4465	13	72	128	56	.25		13.5	6.0	2.53	80s	3.0	3.0	79	2.0
051	4513	13	66	119	53	.24		11.9	5.5	3.05	80s	2.7	3.0	21	2.5
052	4523	13	72	159	87	.39		15.3	6.5	2.76	80s	2.2	3.0	60	1.5
Average			69.0	138.8	69.8	.31		13.9	6.0	2.74		2.5	2.7	46.7	2.1
Sire TS4162; Owner—Substation No. 14, Sonora															
061	4448	13	60	149	89	.40		13.5	5.7	2.63	80s	2.8	2.5	96	4.0
062	4473	13	66	161	95	.42		13.4	6.2	2.93	64s	2.0	2.5	22	3.0
063	4480	13	73	150	77	.34		14.7	6.3	3.15	80s	2.5	3.0	16	4.0
064	4564	12	70	122	52	.23		10.4	4.7	2.76	80s	4.0	4.0	18	4.0
Average			67.2	145.5	78.3	.35		13.0	5.7	2.87		2.8	3.0	38.0	3.7
Average, All Rambouillets fed in large pens															
					94.3	.42		17.0	7.7	3.36					

RAMBOUILLETS — PASTURE FED

Sire U.S. 1479; Owner—Substation No. 14, Sonora

017	4432	13	73	163	90	.40	12.6	5.7	3.15	80s	2.7	4.0	5	1.5
018	4438	13	59	121	62	.27	10.0	4.4	2.76	80s	2.7	2.0	10	2.5
Average			66.0	142.0	76.0	.34	11.3	5.0	2.96		2.7	3.0	7.5	2.0

Sire TS3928; Owner—Substation No. 14, Sonora

027	4545	12	66	148	82	.37	12.1	5.7	2.98	80s	3.0	3.5	14	4.0
028	4566	12	69	124	55	.25	10.1	5.0	2.88	80s	3.3	3.5	5	2.0
031	4490	13	62	130	68	.30	12.0	6.5	3.67	80s	2.7	2.0	5	3.5
032	4509	13	64	149	85	.38	13.4	6.3	3.10	80s	2.7	2.0	13	1.5
033	4559	12	65	136	71	.32	11.6	5.4	3.15	80s	3.0	2.5	9	2.0
034	4571	12	66	122	56	.25	9.5	4.7	2.88	80s	3.0	3.5	16	3.5
Average			65.3	134.8	69.5	.31	11.5	5.6	3.11		2.9	2.8	10.3	2.7

Sire Tech 1228; Owner—Substation No. 14, Sonora

043	4475	13	62	136	74	.33	11.7	6.5	3.74	80s	2.0	3.5	6	2.5
044	4458	13	56	120	64	.29	10.6	4.4	3.39	80s	3.0	3.5	7	3.0
Average			59.0	128.0	69.0	.31	11.2	5.4	3.56		2.5	3.5	6.5	2.7

Sire R241; Owner—Substation No. 14, Sonora

053	4423	13	60	129	69	.31	10.8	4.9	2.58	80s	3.0	4.0	21	3.5
054	4487	13	62	138	76	.34	14.9	7.0	3.10	70s	3.0	1.5	73	2.5
055	4463	13	84	143	59	.26	16.1	6.3	3.27	70s	1.7	1.5	10	3.5
056	4485	13	77	150	73	.33	13.1	5.7	2.76	80s	2.7	4.0	14	3.5
Average			70.8	140.0	69.3	.31	13.7	6.0	2.93		2.6	2.7	29.5	3.2

Sire TS 4162; Owner—Substation No. 14, Sonora

065	4495	13	60	130	70	.31	14.7	5.2	2.93	70s	2.7	2.0	26	3.0
066	4521	13	57	111	54	.24	10.0	4.7	3.05	80s	2.7	2.0	12	3.5
067	4549	12	60	123	63	.28	11.1	5.0	3.10	80s	3.0	3.5	22	4.0
068	4555	12	62	135	73	.33	13.2	5.7	2.76	80s	2.7	1.0	68	4.0
Average			59.8	124.7	65.0	.29	12.3	5.2	2.96		2.8	2.1	32.0	3.6

Average of all Rambouillets fed in Pasture

69.1 .31 12.1 5.5 3.07

Ram Test No.	Ear Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Feed Per 100 lbs. Gain	Fleece Record 365 DAYS			Spin- ning Count	Body Con- form- ation	Belly Wool	Skin Fold	Face Cov- ering
								Grease Weight	Clean Weight	Staple Inches					

COLUMBIAS — FED IN PROGENY GROUPS

Sire C701; Owner—L. A. Nordan, Boerne

39	896	13	64	174	110	.49		17.1	9.0	4.53	58s	1.8	3.5	4	1.0
40	709	13	86	186	100	.45		19.9	11.9	5.39	48s	1.7	2.0	6	1.0
41	852	13	67	162	95	.42		18.1	11.1	4.87	58s	2.3	3.5	6	1.0
42	731	14	48	158	110	.49		18.4	10.9	5.56	56s	1.7	3.5	6	1.0
Average			66.2	170.0	103.8	.46	838	18.4	10.7	5.09		1.9	3.1	5.5	1.0

COLUMBIAS — FED IN LARGE PENS

Sire B4099; Owner—L. A. Nordan, Boerne

43	916	12	47	121	74	.33		10.4	6.0	4.42	62s	2.3	2.0	4	1.0
45	936	12	60	152	92	.41		14.1	7.8	5.68	46s	2.3	3.0	3	1.0
46	909	12	62	165	103	.46		15.4	7.6	4.36	56s	2.3	2.5	4	1.0
Average			56.3	146.0	89.7	.40		13.3	7.1	4.82		2.3	2.5	3.7	1.0

Sire A782; Owner—L. A. Nordan, Boerne

47	890	13	63	178	115	.51		16.4	8.3	4.99	58s	3.0	3.0	9	1.0
49	800	13	85	185	100	.45		20.9	11.4	5.34	56s	2.5	2.5	3	1.5
50	782	13	69	165	96	.43		18.3	9.4	4.36	58s	2.8	3.5	9	1.0
Average			72.3	176.0	103.7	.46		18.5	9.7	4.90		2.8	3.0	7.0	1.2

Sire B852; Owner—L. A. Nordan, Boerne

51	891	13	67	172	105	.47		17.7	9.2	4.87	50s	2.0	2.5	8	1.0
52	928	12	62	172	110	.49		17.4	8.3	4.08	58s	2.5	3.0	11	1.5
53	750	14	74	172	98	.44		14.8	8.1	4.01	60s	2.7	3.0	6	1.5
54	956	12	60	178	118	.53		16.5	9.4	5.68	56s	2.0	2.0	2	1.0
Average			65.8	173.5	107.8	.48		16.6	8.8	4.66		2.3	2.6	6.7	1.2

Average, all Columbias
fed in Large Pen

101.1 .45 16.2 8.5 4.78

CORRIEDALES — FED IN PROGENY GROUPS

Sire T.C.S. 320; H. C. Noelke, Sheffield

9	1540	13	66	189	123	.55	20.5	10.9	3.95	60s	1.3	3.5	20	1.5
10	1549	13	73	180	107	.48	20.1	10.7	3.99	46s	1.5	4.0	31	1.0
11	1508	15	76	187	111	.50	18.0	9.6	4.23	58s	2.2	4.0	11	1.0
12	1513	15	66	150	84	.38	14.9	9.3	4.85	56s	1.3	4.0	4	2.5
Average			70.2	176.5	106.3	.47	826	18.4	10.1	4.26	1.6	3.9	16.5	1.5

Sire S.L.S. 322; Owner—Truett Stanford, Eldorado

19	SB127	12	61	162	101	.45	17.4	8.9	3.96	60s	1.3	1.5	8	1.5
20	TCS542	12	61	175	114	.51	19.4	10.2	4.48	50s	1.7	1.5	11	2.5
21	TCS518	12	57	145	88	.39	17.9	8.9	4.48	56s	2.0	1.0	6	2.5
Average			59.7	160.7	101.0	.45	776	18.2	9.3	4.31	1.7	1.3	8.3	2.2

Sire S.L.S. 348; Owner—Truett Stanford, Eldorado

23	TCS549	12	49	127	78	.35	14.4	7.3	4.70	56s	2.2	3.0	4	2.5
24	SB108	12	67	169	102	.46	18.7	9.9	4.53	50s	1.3	3.5	5	2.5
25	TCS496	12	69	171	102	.46	18.6	9.5	4.92	50s	2.0	2.0	8	1.5
26	TCS503	12	60	159	99	.44	19.2	7.7	4.13	56s	2.2	3.5	8	3.5
Average			61.2	156.5	95.3	.43	810	17.7	8.6	4.57	1.9	3.0	6.2	2.5

Average, all Corriedales
fed in progeny groups

100.8 .45

18.1 9.4 4.38

CORRIEDALES — FED IN LARGE PENS

Sire H.C.N. 1005; Owner—H. C. Noelke, Sheffield

13	1533	12	64	148	84	.38	16.5	8.9	4.51	60s	1.7	2.0	7	3.5
14	1551	13	69	157	88	.39	18.7	9.4	4.17	58s	2.5	2.5	25	2.0
15	1579	12	76	155	79	.35	18.7	10.3	4.46	60s	2.3	2.0	8	1.5
16	1580	12	80	167	87	.39	20.8	10.2	4.46	56s	2.0	3.5	22	2.5
Average			72.2	156.7	84.5	.38	18.7	9.7	4.40		2.1	2.5	15.5	2.4

CROSSBREDS — FED IN LARGE PENS (15/16 RAMBOUILLET; 1/16 ROMNEY)

Sire 255; Owner—Tex. Ag. Exp. Sta.—Bluebonnet Farm, McGregor

55	1182	13	69	143	74	.33	12.0	5.8	3.79	80s	3.0	2.5	3	1.0
56	1218	13	70	128	58	.25	11.7	5.7	3.44	64s	2.2	3.5	9	2.0
57	1240	13	73	167	94	.42	18.0	8.9	3.74	80s	2.0	2.0	26	1.0
58	1251	13	64	133	69	.31	10.7	6.2	3.34	80s	2.2	3.0	3	1.0

Ram Test No.	Ear Tag No.	Age Mo. 4/1	Initial Wgt. 9/5/51	Final Wgt. 4/16/52	Total Gain	Average Daily Gain	Feed Per 100 lbs. Gain	Fleece Record 365 DAYS			Spin- ning Count	Body Con- form- ation	Belly Wool	Skin Fold	Face Cov- ering
								Grease Weight	Clean Weight	Staple Inches					

DELAINE MERINOS — FED IN PROGENY GROUPS

Sire JBB 168; Owner—Owen Bragg, Talpa

27	289	14	77	187	110	.49		17.0	6.0	2.86	80s	1.5	3.0	11	3.0
28	240	16	97	194	97	.43		22.4	7.8	3.61	70s	2.2	3.0	10	1.0
29	220	16	83	193	110	.49		22.4	6.6	2.88	80s	2.0	2.0	24	1.0
30	270	16	62	164	102	.46		15.8	6.3	3.56	80s	1.7	4.0	5	2.0
Average			79.8	184.5	104.8	.47	888	19.4	6.7	3.23		1.8	3.0	12.5	1.7

Sire 9B30; Owner—Van C. Brown, Harper

31	1B68		39	124	85	.38		16.8	9.0	4.53	60s	2.5	1.5	43	1.5
32	1B76		50	137	87	.39		17.1	8.1	4.31	60s	3.0	1.0	34	2.5
33	1B78		47	131	84	.38		12.6	8.2	4.36	64s	2.5	2.0	19	1.0
34	1B80		39	133	94	.41		16.8	8.7	3.91	64s	2.8	2.5	58	1.5
Average			43.8	131.3	87.5	.39	739	15.8	8.5	4.28		2.7	1.7	38.5	1.6

Sire 218; Owner—R. R. Walston, Menard

35	301	15	59	142	83	.37		16.6	6.5	3.91	80s	1.5	1.5	16	1.0
36	302	15	65	163	98	.44		21.6	7.1	3.39	80s	1.7	3.0	23	1.5
37	303	15	56	134	78	.35		20.2	5.7	2.70	80s	3.5	1.5	47	3.0
38	304	15	48	136	88	.39		18.1	5.8	3.27	80s	2.5	2.5	43	1.0
Average			57.0	143.7	86.8	.39	805	19.1	6.3	3.32		2.3	2.1	32.2	1.6

Average, all Delaine Merinos

fed in Progeny Groups	93.0	.42	18.1	7.1	3.61
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SUFFOLKS — FED IN PROGENY GROUPS

Sire A 36934; Owner—Johnny Bryan, Ft. Stockton

1	3	12	162	255	93	.42		13.6	6.4	2.86	48s	2.0	4.0	5	1.0
3	67	12	140	241	101	.45		11.6	4.6	2.86	46s	1.3	4.0	4	1.0
4	15	12	138	214	76	.34		7.2	4.1	2.79	50s	2.0	4.0	4	1.0
Average			146.7	236.7	90.0	.40	1168	10.8	5.0	2.84		1.8	4.0	4.3	1.0

(Continued from first page)

Comparative data for all rams of the three feeding arrangements are as follows:

	Total Gain	Average Daily Gain	Feed per 100 lbs. Gain	Grease Weight lbs.	Clean Weight lbs.	Staple Length inches
Progeny Groups	104.3	.466	867	18.0	8.4	3.66
Large Pens	93.8	.42	899	16.4	7.7	3.61*
Pasture	69.1	.31	1105	12.1	5.5	3.07

The primary purpose of this test is to bring a large number of rams together so that they may be studied on a comparable basis. The attempt is to reduce to a minimum the environmental variation between individuals and groups of individuals.

The most encouraging results are obtained in the case of staple length. A study of the data indicates that it is highly heritable. This is indicated by a large difference between sire groups as compared to smaller differences within sires. Also the rams which have progeny in each of the three feeding arrangements perform in the same order in respect to staple length. Further evidence is the excellent progress made by many breeders in selecting for staple length.

The inheritance of sire differences with respect to the productive characters (pounds of gain and wool) is less encouraging than staple length, although it is certainly high enough to warrant detailed study. The questionable significance of sire differences for these characteristics is due to the fact that variation of performance within sire groups is great in comparison to the variation between sires. The repeatability of performance is not good for additional test groups by the same sire tested in the same or subsequent years. Knowledge of this fact indicates that a further attempt should be made to reduce the variation that cannot be attributed to genetic differences between individuals. Detailed study of the data indicates that several factors other than genetic composition are influencing the animals performance.

The age or size of animals at start of test has a bearing on gain and clean wool production. The larger animals tend to gain more up to the limit at which they begin to mature and put on fat. There is a direct positive correlation between initial weight and clean wool production. Approximately 25 percent of the variation of clean wool weights may be attributed to initial weight.

Sick animals should not be included in the test as they completely disrupt the results of the test.

Inconsistency of gains between the first 28 days and the rest of the test indicates that all animals are not getting started on feed at the same time. This could be reduced by a preliminary feeding period.

* The difference in staple length between the progeny groups and the large pens is smaller than the other factors. This is due to a larger number of rams from the long staple breeds (Columbia, Corriedale) being present in the large pens.

The possibility of self-feeding the animals on a cheaper ration should be considered. This would make the test more economical and encourage wider use. It would also eliminate the human element in evaluating the appetite of the animal.

The inheritance of such physical characteristics as face covering, horn shape, skin folds and spinning count is high. Progress in breeding for any of these depends entirely on the emphasis placed upon them in selection.

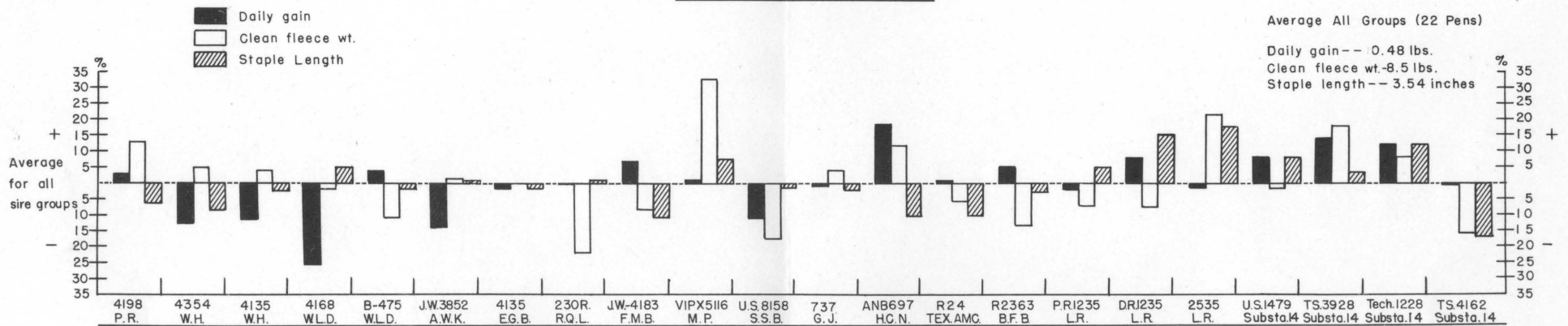
With the Rambouillet sheep there is a slight tendency for the heavy folded sheep to produce more clean wool. There is no tendency for those with more face covering to be superior producers.

The data indicate that large, fat lambs and young, thin (or dogie) lambs do not make satisfactory gains. Lambs going on test in strong, medium condition appear to have the advantage.

RAMBOUILLET PROGENY TEST

1951-1952

INDIVIDUAL SIRE GROUPS



LARGE PEN GROUPS

